MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2022/2023

DIR5014 INTRODUCTION TO INDUSTRY 4.0

(All Sections/Groups)

04 JULY 2023
9.00 A.M – 11.00 A.M
(2 hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of 1 page excluding cover page.

2. Attempt **ALL** questions. The distribution of the marks for each question is given.

QUESTION 1

a) Briefly explain the **THREE (3)** essential stages in adopting Industry 4.0.

(9 marks)

b) Describe in detail the **FOUR (4)** main layers of architecture of Internet of Things (IoT).

(16 marks)

[Total 25 Marks]

QUESTION 2

a) Briefly explain the **FIVE (5)** technological components of Robots.

(20 marks)

b) List any **FIVE (5)** benefits of industrial robotic applications in manufacturing industry.

(5 marks)

[Total 25 Marks]

QUESTION 3

a) What are the **FOUR (4)** drivers in making of smart city. Explain in detail.

(16 marks)

b) Describe the **THREE (3)** objectives of smart city making initiatives.

(9 marks)

[Total 25 Marks]

QUESTION 4

a) Define business model and describe the **FOUR (4)** fundamental of successful business model.

(9 marks)

b) Describe the **FOUR (4)** categories of connected product capabilities in business model that drive the building of smart city.

(16 marks).

[Total 25 Marks]

End of Paper